$ 1.50

denver apple pi Seed

Newsletter for Denver's Apple users

Volume 7 Number 6 June 1985

The flags flew and the trumpets blew and a new set of Apple Pi officers were installed. I would like to take this opportunity to introduce you to your 1985-1986 Board Members and Officers.

At the helm as President Randall Ansley (me). I have been a member of Denver Apple Pi for about two and a half years. I have served as editor of the Seed since September 1983 and was a member of the 1983-84 By-laws Committee. I served one year of a three year term as Director at Large on the Apple Pi board of directors and resigned that position to become President. I work in the microcomputer industry and my interests include flying, photography, and stained glass.

As first mate (Vice President) of the good ship Apple Pi is Tom Angelos. Tom is an old hand at Apple Pi. Serving as Chairman of the Apple Pi By-laws Committee in 1983-1984. Tom has worked in and around the computer industry and brings a wealth of contacts and experience to his new office. If you have speakers you would like to see at the meetings or you yourself would like to speak or make a presentation to the club, please contact Tom.

Ow Yeoman (Secretary) this year is Mary Ann Vitry. Mary Ann has been with Apple Pi since the beginning in 1979. She has held office before as Secretary / Treasurer. Mary Ann holds a position as an executive secretary for Storage Technology Corp. and enjoys meeting new people. If you have any address changes of need to check your status with Denver Apple Pi, introduce yourself to Mary Ann at any meeting.

In charge of the shekels (Treasurer) we add Joann Bachman to our ranks. Joann has been an active member of Apple pi for over a year and has spent a great deal of time using many application programs for the Apple. Joann does not profess to be a programmer but is willing to help you with the programs that she has used and mastered. If you have any questions on how the Apple Pi funds are being spent contact Joann.

In charge of the Apple Pi Store once again is Roy Dean. This will be the second year that Roy has filled the position of Sales Officer. In addition to his already hectic job, Roy is now serving on the Board of Directors as Director at Large for a two year term. When you stop by the sales table say hi to Roy and let him know if there are things that you would like to see Apple Pi carry in the Apple Pi Store.

GOTO 4

** NOTICE **

Applr Pi will not have a general meeting in July because of the 4th of July holiday. Rather than try to change the meeting times and dates the general meeting will be replaced by a pinic meeting at the Core Meet, July 7th. We would like to see a big turn out for this special Core Meet and will have the library set up and the Pi store as per normal. The facility for the Core Meet, Cleare Creek Office Park, is right on Clear Creek with grass, trees, and outdoor tables. There is a pop machine but you should plan to bring food and drinks as we don't know how many people might attend.

$2

denver apple pi

Message Center 426-3482 ----- BBS 469-7541

denver apple pi Seed

APPLE PI
P.O. BOX 17467
DENVER, COLORADO 80217

President..... Randall Ansley
Vice President..... Tom Angelos
Secretary..... Mary Ann Vitry
Treasurer..... Joann Bachman
Board Member & IAC Representative..... Trent Hein
Board Member & Sales Officer..... Roy Dean
Board Member..... Jim Flanagan
Software Librarian..... Ed Thompson
Store Representative & Facilities & Property Officer..... Bob Hein
New Member Contact Officer..... Lianne Nusse
BBS Sysop..... Steven Martin
Seed Editor (Pro Tem)..... Randall Ansley
Publications Librarian (Pro Tem)..... Rex Baker
Newsletter Distribution.....
Special Intrest Groups.....

ADVERTISING RATES

1/4 Page..... $25.00
1/2 Page..... $40.00
Full Page..... $70.00

=-=-= Circulation over 700 =-=-=

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MEMBERSHIP INFORMATION
$10 APPLICATION FEE AND $18 PER YEAR DUES

APPLE PI is an Apple Computer Users Group - not affiliated with Apple Computer, Inc. - that provides many member benefits, some of which are:

MONTHLY MEETINGS-

On the first Thursday of each month at 7:00 p.m. APPLE PI holds its general meeting at the Greene Center, Colorado School of Mines Campus, Golden, Colorado. This meeting is a combination of an informational meeting, new product announcements, and a short business meeting. The members are given an opportunity to buy computer supplies a little above cost. Software products are given away as door prizes.

On the Sunday following the general meeting there is an informal meet which is usually held at the home of a member, the location of which is announced in the newsletter and at the general meeting. This meeting is from 10:00 a.m. until 3:00 p.m. and provides a more informal environment to seek or give advice to fellow members and get copies of programs from the APPLE PI Library. Both of these meetings are open to the general public but only members have access to products that are sold.

PROGRAM LIBRARY-

APPLE PI currently has a library of 8,000 programs. All current disks are in 16 sector (3.3, Pascal, CP/M) format and are available to any member. APPLE PI Members can obtain copies from the library:

1) By coming to the monthly informal meeting (swap meet);
2) By written request to the club librarian (at any meeting or by mail);
3) By electronic mail on APPLE PI's bulletin board system:

When requesting copies, please include the following information:

a) Your Name, Address, and Phone number;
b) Disk Category and Volume Number;
c) Blank Diskette(s) or request to utilize a new disk (member will be charged $2.50 for the new disk);
d) Copy fee ($1.00 per diskette side unless you donate a program you have written at the same time and fill out a Progam Submission Form). Only complete sides of disks will be copied.
e) Instructions on how the disks are to be returned, i.e., at the next meeting, by mail, etc. (IF RETURN IS TO BE BY MAIL PLEASE BE SURE TO INCLUDE A STAMPED, SELF-ADDRESSED FLOPPY DISK MAILER, AND $2.50 TO COVER SHIPPING COSTS).

DISK OF THE MONTH-

Each month a collection of some of the best programs donated to APPLE PI during the preceding month are made available. The DOM can be purchased at any group meeting or by mail.

DUES-

Current membership dues are $18.00 per year, with a one-time application fee of $10.00. Checks should be made payable to APPLE PI.

$3

LIBRARIAN'S REPORT

If April was slow then May was a sure cure for insomnia! DOM sales totaled 35 and 107 library copies were made. The feature programs on the May DOM were really very good and if you missed them, I recommend you take a look at them at the next meeting. Of special note, I think, were Defender! which is an alien arcade game and Imagewriter Printer Initializer.

The June DOM will contain the programs listed on the label below. Blackbox is a new high-res windows style game very professionally done by Glen Bredon. In addition there is a cross-section of very good DOS 3.3 utilities, and there are three Prodos utilities which will have to be converted before being run. Sorry, we are not at present licensed to distribute Prodos!

Denver Apple Pi's Disk of the Month

#059 JUNE 1985 DOM

APPLE PI DOM JU	BLACKBOX	CAVERN CRUSADER	ELAPSED TIME CA
MINI GOLF	ALPHACAT	AMPERSAND MENU	APPLE BASE CONV
ASCII-CONVERTER	BINARY START &	BMENU	DELETE DOS
DISK II SECTOR	FINAL DISK EDIT	HI-RES DISPLAY/	MENU
MOVE DOS 3.3	NEWVOL3.3A	SUPER EXEC MAKE	T-FILE EDIT
TLIST TEXT FILE	TRACK SECTOR LI	TYPE COMMAND DO	VOLUME NAME CHA
XDIR EXTENDED C	BOTHDOS.INSTRUC	PRODOS.DISK.ZAP	PRODOS.MENU
APPLEPICREDIT	BB.SH	CAVE.OBJ	CAVE.SH
DELETE DOS.X	PICTR.DOM JUNE		

Please note that the library listing disk has been updated and you will probably want to have your copy updated as well. For those of you who haven't looked at the library disk for several months, you will find an exceptional new listing reader program written by Bob Garth and donated to the club. Don't be surprised if Bob has something else available soon!

Coming very soon is a collection of Imagewriter programs which will be distributed as our second printer disk. If anyone has programs for this collection please get them in soon. We particularly need a subroutine based graphics dump that would be suitable for use in a variety of other applications (can you strip it out of the Imagewriter Tool Kit?). Also, for those who attend the Core meet, there will be a one time free distribution of about 50 hardcopy library lists on a first come first served basis.

See you general meeting and core meet.

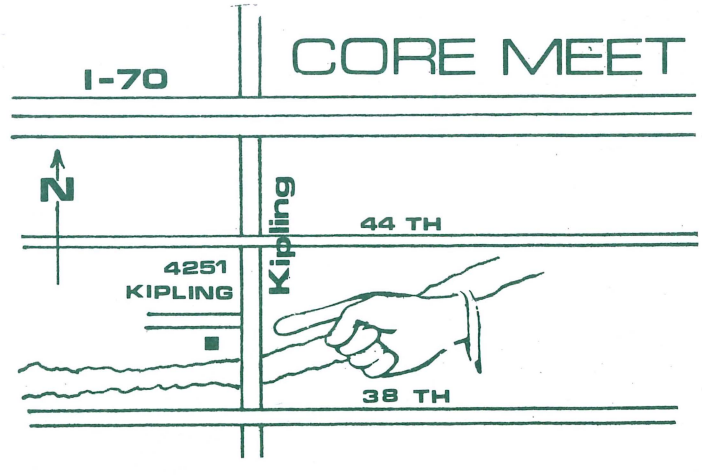
--Ed Thompson, Librarian--

Appleworks Mailing Program

Appleworks owners have you wanted to merge database information into a word processor document? Well now you can and the bite to your pocketbook will only be $30.00. A utility for Appleworks called AMP has been introduced by the International Apple Core which will read a database file and merge up to 30 unique fields into a word processor document with up to 6 of the merged fields occurring in the same line. AMP is excellent for mail list merging and has substantial flexibility that will greatly expand the ability to report from a database.

AMP was written by Apple Computer and is being distributed exclusively by the International Apple Core. It is supplied on disk as a basic file in Prodos format and can thus be further customized by the user. An adequate 13 page instruction document is also provided on disk as an Appleworks word processor document. The only limitation that I have noticed is that AMP does not re-justify the document when you merge into the middle of a line of text. This makes it impossible to prepare a justified document as well as a little tricky to plan how long the line with merged data will be. Most mail-list merging applications do not require merging into the body of the text but if they do some prior planning will be required.

AMP is available from the International Apple Core for $30.00 if you are not a member and $25.00 if you are. The IAC address is 908 George Street, Santa Clara, California, 95054. So Appleworks owners, why pay more? Get Apple's own product with a modifiable code and keep the change!



.....FROM 1

Our last new Board Member is by no means last on the list of Apple Pi volunteers. Jim Flanagan has been active in Apple Pi from the start of his recent membership. He has jumped right in and helped out with several tasks and not only serves on the Board of Directors but is also assistant software librarian. Jim works as a fireman in Denver and is prepared to answer all of your "HOT" questions.

Trent Hein is filling his second year of his two year tem as Director at Large and is continuing to fill the position of IAC (International Apple Corps) Representative. Trent is one of the most knowlegable Apple users around and has been a tremendous asset to Denver Apple Pi. If you have any questions at all about Apples or Apple Pi Trent will be more than happy to point you in the right direction.

One of the most time consuming jobs in the club is that of Software Librarian. The task is a big one to say the least and meeting this challenge is Ed Thompson. Ed is a long time Apple user with vast experience putting together and maintaining software libraries. Ed has already looked into several new sources of public domain programs and is outing together some great DOMs If you have any public domain programs to donate to the club or need something special from the Library, see Ed and thank him for the time it takes to maintain a library the size of Apple Pi's.

Some people just don't know when to through in the towel! This year Bob Hein has stepped down as President and jumped in and volunteered to fill two fill two other very important positions; Store Representative and Facilities & Property Officer. Bob will be to link between Apple Pi and the member stores. This positions get very little recognition but are vital for Denver Apple Pi. If you would like to help Bob out with such things as setting up the projection equipment for a meeting or delivering extra Seeds to one of the store members, just tell Bob that you would like to help. He will take you up on it!

The Apple Pi Storekeeper for a second year is Roy Dean. Roy has done an excellent job of finding really great prices on things like diskettes, paper, and all the other goodies that the Apple Pi store carries. Roy is a teacher by trade and has good computing background. If you would like the Apple Pi store to consider selling items you want ask Roy if it can be had. Remember that Pi is not in business as a computer store. We do not sell hardware or software (other than DOS etc.) but we will carry the supplies that the members want.

Our telecommunications center (BBS) is wants again maned by Steven Martin. Steven has been with Apple Pi for many years and is a past President of Apple Pi. He has been the sysop (system operator) from the start. This year Steven became the proud father a bouncing baby Macintosh and today he is one of the clubs most accomplished Mac. people. If you have any questions about the BBS or are interested in Macintosh, Steve will be happy to help you out.

One of the least thought of but most important positions at Apple Pi is that of "New Member Contact Officer". This year this office is being filled by Lianne Nusse. Leanne was the Pi secretary last term and has been running a SIG for children's software. Lianne has her own consulting service to help people get set up using their Apple computers. This year she will be contacting the new Apple Pi members to welcome them to Pi and fill them in on all that Pi has to offer.

WE STILL HAVE THREE OFFICES TO FILL!

We still are in need of an editor for the Seed, a newsletter distribution officer and a special interest group officer. If you would like to help out Apple pi by filling one of these positions or you would like more information about the duties please contact me or talk to any one of your new officers. The tasks are not that difficult but are very rewarding.

-==- Randy -==-

BAFFELED BY YOUR COMPUTER??
Beginning Apple User tutoring in your home.
$ 12.00 per hour

Nusse Computer Services 279-5763

GREEN Apples

Have you ever wanted a quick and dirty data base? This months program was set up as a mailing list but it can be used for any small amounts of any sort of data. If you wish to use it for some other data just change the labels in the main menu and in the input section. The main array is set for 100 items. If you want more just change the DIM command in line 40 and the loop counter in line 120.

Here are the highlights:

The MINI DATA BASE section sets up some sets up some basic information and looks for an existing data file (MAIL.LIST) and if found will read in the data. If not found it will jump to the error handler at line 1000 and that will send the program flow back to line 170 to close the file. Remember if the Apple does not find a file when you use the OPEN command then it will start one. For this reason it is important to CLOSE the file with the Error handler.

The WORK WITH DATA section is the main menu. The FETCH A NAME section looks for a match of data in the first feild. If no match is made then you will branch to line 2100 and told so. If a match is found then the information will be printed on the screen.

ADD A NAME will do just that. Note that the first order of business is to set "S" to 1. This is is the save flag. The SAVE section will not bother to save the file unless it has new information to save. The S var. is used to tell the save section that data has been added or deleted. Also note that the add section increments the N variable to make sure that the file finds the right place in the array.

The DELETE section simply replaces a name with "@@@@@" and the SAVE section looks for this so a deleted name will not be saved.

This is not a polished program by any means but it works and you should find some new ideas to try on your own. HAVE FUN

```
10  REM ####################
11  REM #                  #
12  REM #  MINI DATA BASE  #
13  REM #                  #
14  REM ####################


20  TEXT : HOME : CLEAR
30  LET D$ =  CHR$ (4)
40  DIM STUFF$(100,7):S = 0
50  ONERR  GOTO 1000
100  PRINT D$;"OPEN MAIL.LIST"
110  PRINT D$;"READ MAIL.LIST"
120  FOR I = 1 TO 100
130  FOR J = 1 TO 7
140  INPUT STUFF$(I,J)
150  NEXT J
155 N = N + 1
160  NEXT I
170  PRINT D$;"CLOSE"
180  REM
190  REM ####################
191  REM #                  #
192  REM #  WORK WITH DATA  #
193  REM #                  #
194  REM ####################


200  GOSUB 2000
210  VTAB 13
220  HTAB 5: PRINT "( 1 )  LOOK UP NAME"
230  HTAB 5: PRINT "( 2 )  ADD A NAME"
240  HTAB 5: PRINT "( 3 )  DELETE A NAME"
245  HTAB 5: PRINT "( 4 )  QUIT"
250  VTAB 18
260  HTAB 5: PRINT "(   )  PLEASE PICK ONE"
270  VTAB 18: HTAB 7: GET Z$
280  IF Z$   "1" OR Z$   "4" THEN  PRINT  CHR$
     (7): GOTO 270
290  ON  VAL (Z$) GOTO 300,400,500,600
299  REM
300  REM ####################
301  REM #                  #
302  REM #   FETCH A NAME   #
303  REM #                  #
304  REM ####################
```

Tres. $

ENDING CASH BALANCE	2-28-85	5533.54
INCOME		
New Members		840.00
Renewal Members		378.00
DOM Sales		190.00
Library Copies		221.00
Sales of Supplies		2018.00
Miscellaneous		1.75
Interest Earned		20.93
TOTAL INCOME		3669.68
EXPENSE		
Supplies for Resale		4237.69
Hot Line		92.00
CSM Room Rent		0.00
Printing Costs		415.00
Postage		76.48
Supplies & Copies		12.73
BBS Expense		0.00
State Sales Tax		0.00
Subscriptions		47.85
Club Socials		30.00
TOTAL EXPENSE		4911.75
ENDING CASH BALANCE	3-31-85	4291.47
ASSETS	3-31-85	
Cash on Hand		25.00
Cash in Bank		4291.47
Inventory for Resale		5406.19
Prepaid Expense		164.47
Accounts Receivable		0.00
Equipment		0.00
Total Assets		9887.13
LIABILITIES		
Sales Tax Accrued		326.59
Accounts Payable		450.00
Unposted Income		0.00
Total Liabilities		776.59
NET WORTH		9110.54

THE STORE MEMBERS

COLORADO SOFTWARE CONNECTION
P.O. BOX 29869 DENVER, CO 80229-0869 (303) 756-8819

Connecting Point

adam's computers, inc.
3355 So. Wadsworth Blvd.
Lakewood, CO 80227 (303) 986-9655

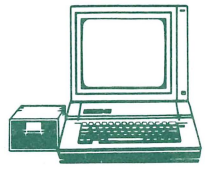
colorado Computer Systems, Inc.
3005 West 74th Avenue
Westminster, CO 80030 (303) 426-5880

ComputerLand®
8749 Wadsworth Blvd.
Arvada, CO 80003 (303) 420-1877

ComputerLand®
2422 So. Colorado Blvd.
Denver, CO 80222 (303) 759-9140

The Neighborhood COMPUTER STORE
13045 West Alameda Parkway
Lakewood, CO 80228 (303) 988-9140

JOHNNY APPLESEED



Dear John,

I have an Apple //c. Often times, when I put a program disk in, the computer just spins the disk and doesn't load the program. If I take the disk out and put it back in again, it usually works fine. What causes this??

NoBoot

Dear NoBoot,

Most likely, your problem comes from the compact disk drives that Apple used in the //c. These drives don't always "clamp" (get ahold of) the disk properly the first time the disk is inserted. The best way to fix this is just to jiggle the door up and down gently when you insert the disk...then the drive will get the disk in the right place.

John

Dear John,

At an Apple Pi meeting quite a while ago, there was a demonstration on a telecommunications service that connected to some of the Colorado libraries. How do I get ahold of this service??

LibraryLess

Dear LibraryLess,

The service you are referring to is the Public Access Catalog, sponsored by the Colorado Alliance of Research Libraries. To use the service, all you have to do is call...it's free of charge. Here are the phone numbers:

1200 Baud:
8 data, 1 stop, No parity
534-2730
or
534-3520

300 baud:
7 data, 1 stop, Even parity
595-4117

John

Send your questions to:

Johnny Appleseed
% Denver Apple Pi
P.O.Box 17467
Denver, CO 80217-0467

●●●●●●●●●●●●●●

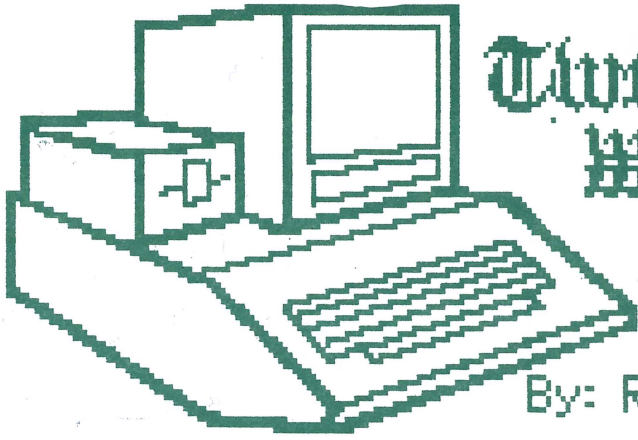
Denver Area BBS's

Listed Below are the Denver area BBS's thought to be active at the current time. If you are aware of other's, please send me a message on the club board!

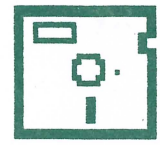
1. Computer Oriented Geological Society...861-8115
2. Comm-Net CBM/VIC.....340-2473
3. Aurora Net (Apple).....343-8401
4. RCPM/RBBS (CPM).....985-1108
5. TBBS HQ (TRS).....690-4566
6. P.DBMS #2.....755-5380
7. TBBS #1 (TRS).....741-4071
8. Denhug (CPM).....423-3224
9. Boulder Bhai.....449-3306
10. Off the Wall (Apple).....443-3367
11. Photo Board.....781-1079
12. T-Zone (Apple).....427-7114
13. Controller Board (TRS).....690-9423
14. Intercomix TBBS.....367-1935
15. IBM PC RBBS #3.....777-4326
16. The Neutral Zone (Apple).....985-9184
17. Odyssey 1.....691-0169
18. Para Psychology.....722-6210
19. The Police Station.....373-1417
20. RCPM/RBBS (CPM).....499-9169
21. Star Board (TRS).....455-3113
22. TBBS #2 UFO Net (TRS).....278-4244
23. The Unknown BBS (CPM).....988-8155
24. Forbidden Zone (Apple).....465-2027
25. CPS/BBS (CPM).....978-0298
26. R.I.P. IBM.....449-3306
27. Online.....755-5380
28. Link (Apple).....429-4219

Of course as everyone knows, our own Apple Pi Board can be reached at 469-7541.

```
310  VTAB 22
330  INPUT "ENTER LAST NAME... ";N$
340  FOR I = 1 TO N
350  IF STUFF$(I,1) = N$ THEN 370
355  IF I = N THEN  GOSUB 2100
360  NEXT I
370  FOR J = 1 TO 7
375  VTAB J: HTAB 17: PRINT STUFF$(I,J)
380  NEXT J
390  VTAB 22: PRINT "PRESS ANY KEY...
           ": GET ZZ$: GOTO 200
399  REM
400  REM ####################
401  REM #                  #
402  REM #    ADD A NAME    #
403  REM #                  #
404  REM ####################


405 S = 1
410  GOSUB 2000
420  FOR J = 1 TO 7
430  VTAB J: HTAB 16: INPUT "";STUFF$(N + 1,J)

440  NEXT J
450 N = N + 1
460  VTAB 22
470  PRINT "PRESS ANY KEY...  ";: GET ZZ$: GOTO
     200
499  REM
500  REM ####################
501  REM #                  #
502  REM #  DELETE A NAME   #
503  REM #                  #
504  REM ####################


505 S = 1
510  VTAB 22
530  INPUT "ENTER LAST NAME... ";N$
540  FOR I = 1 TO N
550  IF STUFF$(I,1) = N$ THEN 570
555  IF I = N THEN  GOSUB 2100
560  NEXT I
570 STUFF$(I,1) = "@@@@@"
580  VTAB 22
590  PRINT "PRESS ANY KEY...
          ";: GET ZZ$: GOTO 200
599  REM
600  REM ####################
601  REM #                  #
602  REM #  SAVE AND EXIT   #
603  REM #                  #
604  REM ####################


605  HOME : IF  NOT S THEN 690
610  PRINT D$"OPEN MAIL.LIST"
620  PRINT D$"WRITE MAIL.LIST"
630  FOR I = 1 TO N
640  IF STUFF$(I,1) = "@@@@@" THEN  NEXT I
650  FOR J = 1 TO 7
660  PRINT STUFF$(I,J)
670  NEXT J
680  NEXT I
685  PRINT D$"CLOSE"
690  VTAB 12: HTAB 19: PRINT "BYE": END
999  END
1000  REM ####################
1001  REM #                  #
1002  REM #  ERROR  HANDLER  #
1003  REM #                  #
1004  REM ####################


1010  IF  PEEK (222) = 5  THEN 170
1100  HOME
1110  VTAB 12
1111  PRINT "AN ERROR HAS HAPPENED...CALL KEY
     PERSON"
1112  END
2000  REM
2001  REM ####################
2002  REM #                  #
2003  REM # PAINT THE SCREEN #
2004  REM #                  #
2005  REM ####################


2010  HOME
2020  PRINT "LAST NAME ----"
2030  PRINT "FIRST NAME ---"
2040  PRINT "ADDRESS ------"
2050  PRINT "CITY ---------"
2060  PRINT "STATE --------"
2070  PRINT "ZIP ----------"
2080  PRINT "PHONE --------"
2085  VTAB 21: PRINT  SPC( 20)
2090  RETURN
2099  REM
2100  REM ####################
2101  REM #                  #
2102  REM #  MISC. GOSUBS..  #
2103  REM #                  #
2104  REM ####################


2110  VTAB 21: PRINT "NAME NOT FOUND!"; CHR$ (
     7): RETURN
```



Two Bits Worth



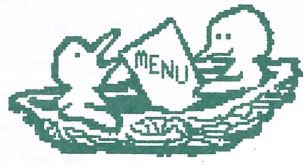
By: R. W. Meddles

The Newsroom by Springboard

The Newsroom is a new product from Springboard Software that is designed to allow you to create your own newspaper or newsletter including banners, graphics, and text. Newsroom is certainly a creative new piece of software and is available at a reasonable price ($40), but don't apply for your press pass or issue a challenge to the Denver dailies just yet. Newsroom, combines some nice features in an easy to use package that would be up to the task of producing a small club's newsletter, but seems even better suited to initiate the young novice to what goes into the creation of a newspaper.

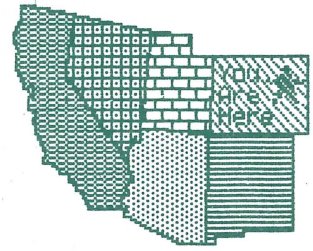
RUN NEWSROOM...

Newsroom comes with two disks, the master program as well as a two-sided graphics library disk. The user's manual provided is complete, concise and easy to read. The program is menu-driven and can be manipulated through the keyboard, mouse or joystick. I found using both the keyboard and the joystick to be useful when manipulting graphics; the joystick for quicker, longer moves of the cursor, the keyboard arrows for shorter more precise moves. Running the program takes a little getting used to but not unreasonabally so considering the versitility it offers. Users would be well advised to read through the manual quickly before jumping in too deep. The biggest fault that can be found with the program is after working with a panel of text or graphics or combination of both, it's up to the user to remember to save their work before exitting to another area. If you forget, you start over, it's lost forever. No warnings, no apologies. Hey, it's dog eat dog out there in the newspaper game.



Graphic Examples

The graphics capabilities for Newsroom include a graphics library of over 600 items. These graphics can be editted through the use of the graphic editor. Functions of the editor include line/lines, circle, box, freehand, and erase features which can all employ 10 different 'pens' ranging from fine tip to large tip to a spray paint type tip. Ten different fill patterns are also available some of which are shown in the above picture. Text can also be added to pictures for captions in any one of the five available fonts. Graphics can also be stacked, as shown in the picture of the star on the wesrtern U.S. map. Though no graphics can be added from any source other than the Newsroom's own graphics library or editor, new graphics can be created on a 231 x 167 grid, with fine detail available through the magnifying glass, (an economy version of the 'Fat Bits' routine found in other graphics packages).



Text is entered through a simplistic word processing routine and automatically wraps around your pictures. When working with graphics approximatly 50 to 100 words per panel can be entered, depending on the size of the graphic. There are 8 panels or 6 with a banner, per standard page.

MISCELLANEOUS

Overall, I found Newsroom to be an enjoyable, entertaining program to use. One of the features of Newsroom not discussed here is the "Wire Service". As I do not have a modem, I was unable to test this feature, you'll have to find out for yourself how well it performs. In summary, whether you have a newsletter to print, want the kids to have some fun while learning a little about the creation of a newspaper, or have simply always dreamed of shouting "Stop the presses", (or is that "Stop the dot-matrix printer"), Newsroom should do the job.

KID's

KID'S STUFF

APPLESEEDS

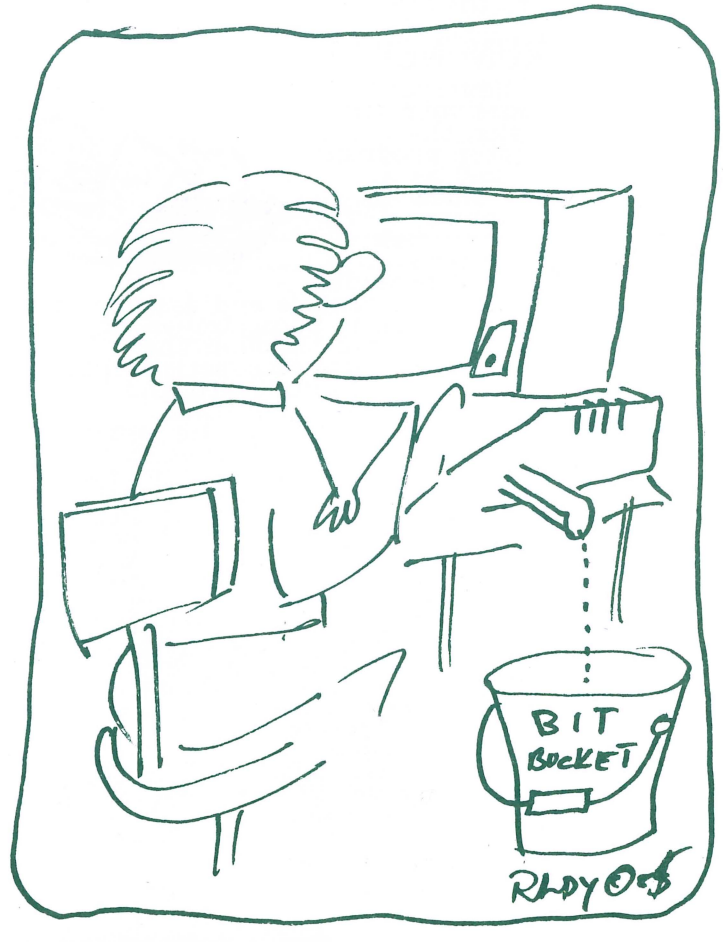
REVIEW: KINDER KONCEPTS - MATHEMATICS AND READIN. READINESS
Rating - excellant!

Midwest Software produces this eye-catching, hold-their-interest program. Both the math and reading readiness disk are requested frequently by our daycare preschoolers. The programs comes on three seperate disks, and are $18.95 each, or the complete program on one disk at $99.00.
One of our kid's favorite is an excellant program which teach the concept of addition, a bucket -like object is shown in the middle of the screen, with a line above to the left and right. Balls are piled on each line and a question mark appears under. The child is to count the balls on the left, enter the correct numeral, then do the same on the right. When that task is completed, the balls fall slowly into the bucket, enableing the little person to count them as they fall in, thereby learning how much the the product of the two numbers are. Another favorite is but counter, where the child has to count the numbe of bugs on the screen before they fall off.
The reading disk is also very valuable - each disk contains five different programs, gradually increasing in difficulty. Shape matching, letter matching, next letter, copy the letters all the way up to a concentration game. The graphics are interesting enough to keep the kids interest - in fact we usually have to drag them away!
Midwest Software sent me several descriptive order blanks, if you would like one please call and I will mail you one - at $18.95 each they are an excellant software buy. Please mention Denver Apple Pi when you order. My phone number is; Liane Nusse 279-5763

VP

The featured speaker at the June Meeting of Denver Apple Pi will be Jeff Bayless from the Denver District Attorney's office. He will speak on computer crime. His presentation will cover the Colorado State statutes with emphasis on the small business and home computer applications. Mr Bayless is very interesting and has given many seminars and talks throughout the state. He will have a question and answer period after his talk.

-VP-



Paddle Reader

An improvement over Applesoft's paddle routines

Have you ever wished that your paddles could read more than 0-255? Have you ever wondered why you have all that free paddle play at each end of the paddle range? Well, it seems that the paddle is just a variable potentiometer (0-150K) and the Apple reads the paddle value by discharging a 22 uf capacitor and them timing how long it takes for the capacitor to charge back up. Hence, the higher the paddle value.

The Apple normally reads the paddle value in a monitor subroutine at $FB1E. The subroutine discharges the capacitor in line $FB1E. It then checks memory location $C064 for paddle #0 or $C065 for paddle #1 for the status of the capacitor. If bit 7 is on (1), then the capacitor has not yet been fully charged. If this is the case, then a counter is incremented, and the capacitor status is checked again. When bit 7 is found to be off (0), then the capacitor is fully charged, and the count (paddle value) is stored.

The problem occurs when the count reaches 256. The subroutine subtracts one from the count, making it 255, and then stops. Therefore, there is a limit of 255 for a paddle value. If we write a machine language program which will not default at 256 but continues to count until the capacitor is charged, then we may get a larger paddle value range. (Approx. 0-370)

Program listing 1 shows how to integrate our new paddle value routine. In a nutshell, the procedure to follow to fetch a paddle value is as follows:

1) POKE 810 with the paddle number you wish to read.
2) CALL 768
3) The paddle value is now ready. Place into a variable with a program line like:

```
PV = PEEK (808) + PEEK (809) * 256
```

PV now contains the paddle value.

Most of this article, and the machine language program in listing #2 were taken from Apple Orchard Vol. 4, No. 1, February 1983. All Apple Orchard parts were written by Robin A. Cox.

Program Listing #2

```
300 - AE 2A 03    LDX $032A   Fetch paddle number
303 - A9 00       LDA #$00
305 - 8D 28 03    STA $0328   Clear Counters
308 - 8D 29 03    STA $0329
30B - A8          TAY
30C - AD 70 C0    LDA $C070   Discharge Capacitor
30F - EA          NOP         Wait
310 - EA          NOP
311 - BD 64 C0    LDA $C064,X Check capacitor status
314 - 10 0D       BPL $0323   Jump if charged
316 - C8          INY         Increment counter
317 - D0 F8       BNE $0311   Try again
319 - EE 29 03    INC $0329   Increment counter (high)
31C - AD 29 03    LDA $0329
31F - C9 02       CMP #$02    Count = 512?
321 - D0 EE       BNE $0311   No, try again
323 - 98          TYA
324 - 8D 28 03    STA $0328   Save low counter
327 - 60          RTS         Return to BASIC
328 - ??          Storage     Low paddle count
329 - ??          Storage     High paddle count 256*(0-2)
32A - ??          Storage     Paddle Number (0-3)
```

Program Listing 1

```
5  REM Displays paddle values
6  REM Button (0) ends.
10 DATA 174,42,3,169,0,141,40,3,141,41,3,168,173,112,192,
       234,234,189,100,192,16,13,200,208,248,238,41,3,
       173,41,3,201,2,208,238,152,141,40,3,96
20 FOR L = 768 TO 807: READ M: POKE L,M: NEXT L
30 TEXT : HOME
40 PRINT "PADDLE 0","PADDLE 1": PRINT "--------",
   "--------"
50 POKE 34,2
60 POKE 810,0:CALL 768:P0 = PEEK (808) + PEEK (809) * 256
70 FOR T = 1 TO 5: NEXT
80 POKE 810,1:CALL 768:P1 = PEEK (808) + PEEK (809) * 256
90 PRINT P0,P1
100 IF  PEEK (49249) ) 128 THEN  TEXT : HOME : END
110 GOTO 60
```

MAKE A NOTE!

NO APPLE PI MEETING ON JULY 4TH

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